



Capturing
nature's power

Enhancing performance and
productivity, naturally

Bioflavex



FIND OUT THE BENEFITS OF OUR FLAVONOIDS IN BROILER CHICKENS UNDER HEAT STRESS

Citrus flavonoids, as well as their metabolites, have multiple potential benefits for the intestinal barrier function, preventing diseases caused by its dysfunctionality. Due to their multiple local effects, citrus flavonoids have shown to generate systemic benefits, such as the improvement of the gut microbial dysbiosis, helping to regulate gut homeostasis and contributing this way to alleviate systemic dysmetabolism. Citrus flavonoids and their metabolic bio actives have the following health-promoting properties:

- They help to modulate the barrier permeability of the epithelium.
- Protect mucus layer.
- Regulate intestinal immune system.
- Protect against oxidative stress.
- Positively promote microbiome and metabolome.

In an experimental trial with 1,440 Ross 308 male broiler chicks from day 1 to day 37 of age, **Bioflavex**[®] has shown positive effects on animal performance in standard conditions and under heat stress.

By reducing lipid peroxidation and lowering oxidative stress in broilers, **Bioflavex**[®] is effective in the maintenance of the intestinal wall morphology, therefore improving nutrient absorption.

Supplementing **Bioflavex**[®] modulates gut microbiota, promoting the growth of Lactobacillus and limiting the growth of pathogenic bacteria.

Experimental diets (Rodsatian et al., 2020).

Treatment	Description	Dose (g/MT feed)
Negative control	Control diet	-
Positive control	Control diet + AGP (Bacitracin - 10% BMD [®])	500
Bioflavex [®]	Control diet + Bioflavex [®]	300

MAIN BENEFITS OF SUPPLEMENTING BIOFLAVEX® IN BROILER DIETS:



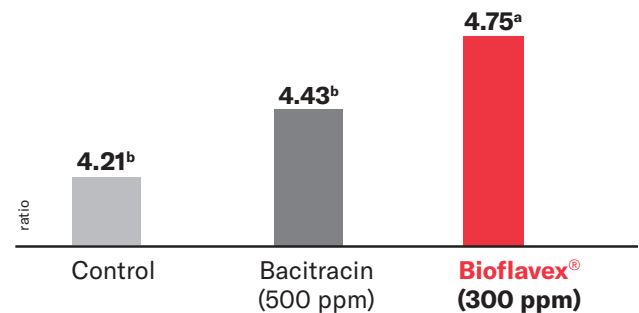
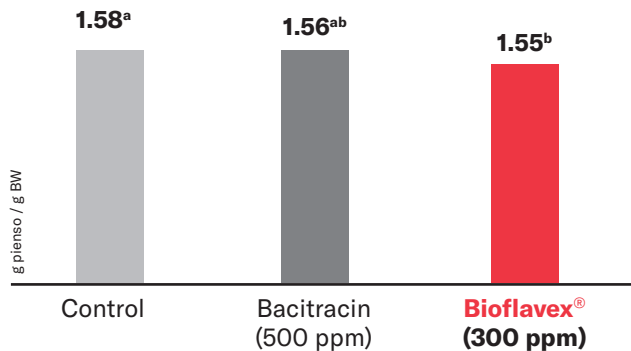
Natural alternative for
AGP free feeding

Mejora del IC



Improve gut health and
absorption

Higher ratio: villi height/crypt depth



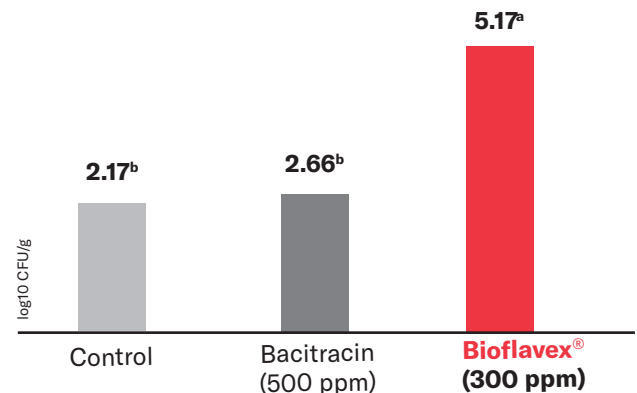
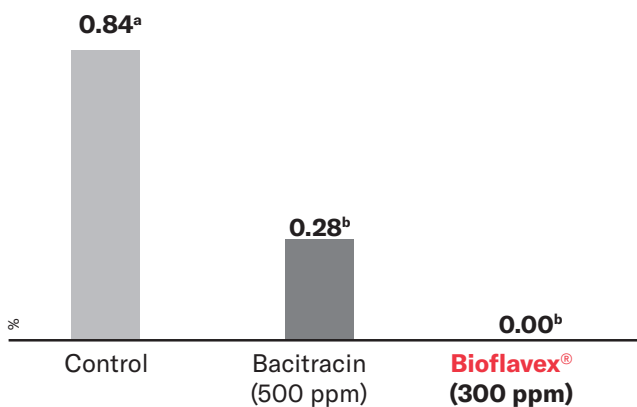
Mortality
reduction

Significantly lower mortality (%)



Gut microbiota
modulation

Elevated *Lactobacillus spp* cell counts



a, b: different superscripts denote statistical differences ($p < 0.05$).

In conclusion, **Bioflavex®** supplementation effectively improves broiler performance, and the morphology of the jejunum of chickens, increases the population of *Lactobacillus spp.* in faeces and reduces overall oxidative stress. Hence, **Bioflavex®** not only can be considered an effective alternative to AGPs, but also has incremental benefits in countries with hot climates where the use of AGPs is not allowed or aim to export chicken meat to the EU or other markets where AGPs are prohibited.

Source: Data obtained from experimental trial in Kasetsart University (Thailand) in Ross 308 male broiler chicks for 37 days.

HTBA is a world leader in natural flavonoids and B12 derivatives that creates a measurable impact on well-being through the power of nature.

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